

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

1293.1050/MDS

First Named Inventor or Application Identifier:

Ki-young KIM et al.

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims & Abstract [Total Pages: 13]
3. ☒ Drawing(s) (35 USC 113) [Total Sheets: 4]
4. ☒ Oath or Declaration [Total Pages: 2]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation by Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
14. ☐ Small Entity Statement(s) ☐ Statement filed in prior application, status still proper and desired.
15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: / **18. CORRESPONDENCE ADDRESS**
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NEW APPLICATION FEE TRANSMITTAL		Attorney Docket No.	1293.1050/MDS
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AMOUNT ENCLOSED	\$ 830.00	First Named Inventor	Ki-young KIM et al.

FEE CALCULATION (fees effective 10/01/97)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	19 - 20 =	0	X \$ 22.00 =	\$ 0.00
	INDEPENDENT CLAIMS	3 - 3 =	0	X \$ 82.00 =	0.00
	MULTIPLE DEPENDENT CLAIMS (any number; if applicable)			+ \$270.00 =	
	BASIC FILING FEE				+ 790.00
	Total of above Calculations =				\$ 790.00
	Surcharge for late filing fee, Statement or Power of Attorney (\$130.00)				+
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	TOTAL FILING FEE =				\$ 790.00
	Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))				+
	Recordation of Assignment (\$40.00; 37 CFR 1.21(h)(1))				+ 40.00
	TOTAL FEES DUE =				\$ 830.00

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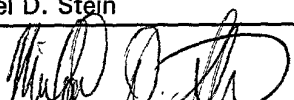
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SUBMITTED BY: STAAS & HALSEY

Typed Name	Michael D. Stein	Reg. No.	37,240
Signature		Date	10-27-98

TITLE OF THE INVENTION

TELEPHONE NUMBER SEARCHING SYSTEM SUPPORTING AUTOMATIC TELEPHONE CONNECTION AND METHOD THEREFOR

CROSS-REFERENCE TO RELATED APPLICATIONS

5 This application claims the benefit of Korean Application No. 97-55564, filed October 28, 1997, in the Korean Patent Office, the disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

10 The present invention relates to an internet service providing system and a method therefor, and more particularly, to a telephone number searching system using an internet and a method therefor.

2. Description of the Related Art

15 With increasing use of the internet, various services are being offered on the internet. Telephone directories are also being provided through internet information services. It is economical to use this service since people can obtain desired telephone number information without referring to a telephone number directory book or calling a telephone number inquiry center. Also, it is convenient since various kinds of additional information which are not provided by the telephone number
20 directory service can be obtained.

 FIG. 1 is a flowchart showing a conventional telephone number searching method through the internet.

25 When a user wishes to know the telephone number of a specific person or company, the user connects to a web server which provides a telephone number service using a web browser (step 100). When the web browser is connected to the web server, the user inputs the name of the person or company (step 110). When the name of the person or company to be searched is input, the search engine

searches concerned information from a telephone directory database and transfers searched information to the web browser in a hypertext markup language (HTML) document format (steps 120 and 130). When there are a plurality of searched results in the transferred information, the user searches the specifically desired information by using additional information such as a detailed address, an E-mail address, and so on (step 140). After searching the desired information, the user terminates the internet connection and makes a phone call using the searched telephone number information (step 150).

When the telephone number service is provided on a conventional web server, the user must terminate the Internet connection and directly dial the number obtained through the search to make a phone call. However, if the obtained number is erroneous and the user wishes to search for another number, the user must connect again to the internet.

SUMMARY OF THE INVENTION

To solve the above problem, an object of the present invention is to provide a telephone number searching system supporting an automatic telephone connection in which a telephone number is searched through the internet and automatically dialed.

Another object of the present invention is to provide a telephone number searching method for searching for a telephone number and then automatically dialing the searched for number through the internet.

Additional objects and advantages of the invention will be set forth in part in the description which follows and, in part, will be obvious from the description, or may be learned by practice of the invention.

In the telephone number searching system to achieve the above and other objects of the present invention, a web server is connected to a telephone number database for storing multiple predetermined telephone numbers. An information terminal is equipped with a web browser which is selectively connected to the web server for submitting a search request to receive a telephone number service and searching for a telephone number from the telephone number database to display at

least one searched for telephone number. One number is selected by a user among the displayed telephone numbers and dialed automatically by a telephone plug-in to set up a communication channel through the telephone.

The above and other objects of the present invention are achieved by providing a telephone number searching method supporting automatic dialing, including the steps of: (a) connecting a web browser to a telephone web server; (b) inputting a search word to be searched to the web server; (c) displaying a result searched by the web server; and (d) selecting one telephone number from the result displayed in said step (c) and operating a telephone plug-in to dial the selected telephone number automatically.

BRIEF DESCRIPTION OF THE DRAWINGS

The above and other objects and advantages of the present invention will become more apparent by describing in detail a preferred embodiment thereof with reference to the attached drawings in which:

FIG. 1 is a flowchart showing a conventional telephone number searching method through the internet;

FIG. 2 is a block diagram showing the structure of a telephone number searching system supporting an automatic telephone connection according to an embodiment of the present invention;

FIG. 3 is a flowchart describing a telephone searching method according to the embodiment of the present invention;

FIG. 4 shows an example of a screen for inputting a search context in the web server home page of FIG. 2;

FIG. 5 shows an example of an HTML document transferred by the web server in the system shown in FIG. 2; and

FIG. 6 shows an example of a screen displayed on a user's web browser in the system shown in FIG. 2, in which the searched telephone number is displayed.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Reference will now made in detail to the present preferred embodiments of the present invention, examples of which are illustrated in the accompanying drawings, wherein like reference numerals refer to the like elements throughout. The
5 embodiments are described below in order to explain the present invention by referring to the figures.

FIG. 2 shows a telephone number searching system which includes a user's information terminal equipped with a web browser 200 (hereinafter, referred to simply as a web browser), a web server 210, a telephone directory database 220 in which
10 predetermined telephone numbers are stored, a telephone plug-in 230 for connecting a telephone to the telephone number searched for in the telephone book database 220, and a telephone 240 connected to the telephone plug-in 230, according to an embodiment of the present invention.

FIG. 3 is a flowchart describing a telephone number searching method
15 according to the embodiment of the present invention which supports an automatic telephone connection.

The flowchart shown in FIG. 3 includes the steps of connecting to the telephone web server using the web browser (step 300), inputting the name of a person or company to be searched in the home page of the web server (step 310),
20 searching for the name of the person or company input to the web server from the telephone directory database and transferring the results of the search as an HTML document (step 320), displaying the HTML document (step 330), selecting a link the user desires from the displayed HTML document (step 340), determining whether the link selected by the user is described by "dialto" (step 350), operating a telephone
25 plug-in if the link selected by the user is "dialto" (step 360), making a telephone call manually if the link selected by the user is not "dialto" (step 370), and automatically making a phone call (step 380) if the telephone plug-in is operated in step 360.

FIG. 4 shows an example of a screen for inputting a search request in the web server home page of FIG. 2, FIG. 5 shows an example of an HTML document
30 transferred by the web server in the system shown in FIG. 2, and FIG. 6 shows an

example of a screen displayed on a user's web browser, in which the searched for telephone number is displayed, in the system shown in FIG. 2.

The present invention will be described in detail with reference to FIGs. 2 through 6.

5 When a user wishes to make a phone call upon searching the telephone number of a counterpart, the user browses the web server 210 through the internet using the web browser 200 (step 300). When the connection to the telephone web server 210 is completed by the web browser 200, a search screen of the telephone number web server 210 is displayed on the web browser 200. FIG. 4 shows an
10 example of a search screen provided by the web server 210 so that the user inputs the proper search requests. In the present embodiment, the search screen includes two windows for inputting the name of a person or company and an address, and an additional window for inputting a keyword such as an E-mail address optionally.

15 The user inputs the name of the person or company to be searched for in the telephone directory database 220 and the address or the keyword thereof, and clicks a search button (step 310). The example of FIG. 4 shows that the name and the address are input to search for the telephone number of John Doe, living in Washington, D.C.

20 When the information to be searched for is input to the home page of the web server 210 and the search button is clicked, the web server 210 searches for the telephone numbers stored in the telephone number database 220 of all the John Does living in Washington, D.C., and transfers the searched results as an HTML document (step 320). FIG. 5 shows an example of the HTML document transferred by the web server 210 as a result of the search.

25 The transferred HTML document is displayed on the screen of the user (step 330). FIG. 6 shows an example of a screen displayed on the user's web browser 200. Here, the telephone numbers of all the people having the name "John Doe" and living in Washington, D.C. are displayed on the screen.

30 After checking the searched results, the user selects a desired link from the screen (step 340). For example, the user may select the telephone number 555-

5124 of John Doe living at 1233 20th St., N.W., Washington, D.C., which is the second of the three links displayed on the screen.

5 In step 350, the web browser 200 determines whether the link selected by the user is expressed by <dialto>. Here, <dialto> is a tag defined by the writer of the HTML document. That is, in the present invention, the link syntax for executing an automatic dialing is described by "<dialto> telephone number </dialto>." When a link described in such a syntax is selected by the user, the telephone plug-in 230 operates and dials a corresponding phone number automatically (step 360). Here, the telephone plug-in 230 is an apparatus or software for automatically connecting a
10 telephone according to the searched for telephone number. In other words, an automatic dialing operation carries out a program, i.e., a dialing routine, which receives the telephone number from the web browser 200 and automatically dials the number.

15 The telephone plug-in 230 connects to the telephone 240 with the selected telephone number using the same telephone line as that used to connect the information terminal with web browser 200 to the web server 210. That is, the information terminal with web browser 200 is not connected to the web server 210 while the telephone plug-in 230 is in use. Thus, the internet connection between the information terminal with the web browser 200 and the web server 210 is
20 disconnected while the telephone plug-in 230 operates and dials a corresponding telephone number automatically and connects the telephone with the selected telephone number (step 380).

25 If the selected telephone number is not the desired telephone number, the information terminal with web browser 200 automatically reestablishes the connection with the web server 210 so that the user may select another one of the telephone numbers which was retrieved as a result of the search.

However, if a second separate telephone line is available, the telephone plug-in 230 may be operated using the second telephone line while the information terminal with web browser 200 is connected to the web server 210 using the first

telephone line. As a result, the use of a second telephone line is optional according to the present invention.

It can be seen that the telephone numbers shown in FIG. 5 are all defined by the automatic dialing syntax. Therefore, all the telephone numbers can be dialed automatically. Since the user selected the second link, which is defined as "<dialto>555-5124 </dialto>", the number 5555124 is dialed automatically. After the number is automatically dialed, the call channel is set up (step 380).

On the other hand, when the link selected by the user is not defined by <dialto> in step 350, the user has to make a phone call manually (step 370). Thus, the user searches the desired number among the telephone numbers displayed on the screen shown in FIG. 6, and makes a phone call by directly dialing the number.

The user may disconnect from the internet and make a telephone call manually and his telephone call can be made on the same telephone line as that used to connect to the internet.

As mentioned above, since the telephone number searched for by the user with the internet is automatically dialed and is connected to the telephone according to the present invention, the present invention provides convenience to the user.

In the embodiment of the present invention described above, the user's equipment, including the web browser 200, the telephone plug-in 230 and the telephone 240, may be implemented by a personal computer and a general purpose telephone. However, in an alternative embodiment of the present invention, the user's equipment may be implemented by a web phone or a hand-held phone which supports a web browser.

Although the present invention has been described in detail above, it should be understood that the foregoing description is illustrative and not restrictive. Those of ordinary skill in the art will appreciate that many obvious modifications can be made to the invention without departing from its spirit or essential characteristics. Accordingly, the scope of the invention should be interpreted in the light of the following appended claims.

CLAIMS

What is claimed is:

1. A telephone number searching system comprising:
 - a phone;
 - a telephone number database to store multiple predetermined telephone numbers;
 - a web server connected to said telephone number database;
 - an information terminal having a web browser, selectively connected to said web server, to submit a search request to receive a telephone number service and searching the predetermined telephone numbers in said telephone number database through said web server, and to display at least one searched for telephone number among the predetermined telephone numbers in accordance with the search request; and
 - a telephone plug-in automatically dialing one telephone number selected by a user among the at least one displayed telephone number to set up a communication channel through said phone.
2. The telephone number searching system as claimed in claim 1, further comprising a personal computer which includes the information terminal having the web browser, wherein the phone is a telephone.
3. The telephone number searching system as claimed in claim 1, further comprising a web phone which includes the information terminal having the web browser and the phone.
4. The telephone number searching system as claimed in claim 1, further comprising a hand-held phone which includes the information terminal having the web browser and the phone.

1 5. The telephone number searching system as claimed in claim 1, wherein
2 the information terminal having the web browser connects to said web server to
3 submit the search using a telephone line, and stops the connection in response to the
4 telephone plug-in being automatically dialing the one telephone number, and said
5 telephone plug-in automatically dials the one telephone number using the telephone
6 line.

1 6. The telephone number searching system as claimed in claim 5, wherein
2 the information terminal having the web browser reestablishes the connection to said
3 web server using the telephone line subsequent to the automatic dialing of said
4 telephone plug-in, to enable the user to select another one of the at least one
5 displayed telephone number.

1 7. The telephone number searching system as claimed in claim 1, wherein
2 the information terminal having the web browser connects to said web server to
3 submit the search using a first telephone line, and said telephone plug-in
4 automatically dials the one telephone number using a second telephone line.

1 8. A telephone number searching method supporting automatic dialing,
2 comprising the steps of:

- 3 (a) connecting a web browser to a web server;
4 (b) inputting a search term to be searched to the web server;
5 (c) searching a telephone number database in which a plurality of telephone
6 numbers are associated with corresponding search terms with the web server using
7 the input search term, and displaying each one of the plurality of telephone numbers
8 which correspond to the input search term; and
9 (d) selecting one telephone number from each telephone number displayed in
10 said step (c) and operating a telephone plug-in to dial the selected one telephone
11 number automatically.

1 9. The method as claimed in claim 8, said step (d) comprises the step of
2 operating the telephone plug-in to dial the selected one telephone number
3 automatically if the selected one telephone number is described by a predetermined
4 tag.

1 10. The method as claimed in claim 9, wherein the predetermined tag is
2 defined as "<dialto> telephone number </dialto>".

1 11. The telephone number searching system as claimed in claim 8, wherein
2 said step (c) comprises the steps of:
3 transferring each of the plurality of telephone numbers and the corresponding
4 search terms by the web server to the web browser as a hypertext markup language
5 (HTML) document;
6 displaying the HTML document.

1 12. The method as claimed in claim 8, wherein:
2 said step (a) comprises the step of connecting the web browser to the web
3 server using a telephone line; and
4 said step (d) comprising the step of disconnecting the web browser from the
5 web server over the telephone line, and operating the telephone plug-in to dial the
6 selected one telephone number automatically over the telephone line.

1 13. The method as claimed in claim 8, wherein:
2 said step (a) comprises the step of connecting the web browser to the web
3 server using a first telephone line; and
4 said step (d) comprising the step of operating the telephone plug-in to dial the
5 selected one telephone number automatically over a second telephone line.

1 14. A telephone number searching method, comprising the steps of:
2 (a) connecting a web browser to a web server which is connected to a
3 telephone database having search terms and corresponding telephone numbers;
4 (b) entering at least one search term by a user to the web browser;
5 (c) searching the telephone database for the at least one search term, and
6 displaying each telephone number corresponding to the at least one search term; and
7 (d) selecting one of the each telephone number by the user, and automatically
8 dialing the selected one telephone number if the selected one telephone number is
9 defined by a link syntax for executing the automatic dialing.

1 15. The telephone number searching method as claimed in claim 14,
2 wherein said step (d) comprises the steps of:
3 determining whether the selected one telephone number is defined by the link
4 syntax for executing the automatic dialing; and
5 operating a telephone plug-in to execute the automatic dialing if the selected
6 one telephone number is defined by the link syntax.

1 16. The method as claimed in claim 14, wherein:
2 said step (a) comprises the step of connecting the web browser to the web
3 server using a telephone line; and
4 said step (d) comprising the step of disconnecting the web browser from the
5 web server over the telephone line, and operating the telephone plug-in to dial the
6 selected one telephone number automatically over the telephone line.

1 17. The method as claimed in claim 14, further comprising the step (e) of
2 reestablishing the connection between the web browser and the web server
3 subsequent to the automatic dialing of the selected one telephone number, to enable
4 the user to select another one of the telephone numbers corresponding to the at least
5 one search term.

1 18. The method as claimed in claim 16, further comprising the step (e) of
2 reestablishing the connection between the web browser and the web server
3 subsequent to the automatic dialing of the selected one telephone number, to enable
4 the user to select another one of the telephone numbers corresponding to the at least
5 one search term.

1 19. The method as claimed in claim 14, wherein:
2 said step (a) comprises the step of connecting the web browser to the web
3 server using a first telephone line; and
4 said step (d) comprising the step of operating the telephone plug-in to dial the
5 selected one telephone number automatically over a second telephone line.

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ABSTRACT OF THE DISCLOSURE

A telephone number searching system supporting an automatic telephone connection in which a telephone number is searched for through the internet and automatically dialed, and a method therefor. A web server is connected to a telephone number database for storing multiple predetermined telephone numbers. An information terminal is equipped with a web browser which is selectively connected to the web server for submitting a search request to receive a telephone number service and searching a telephone number from the telephone number database to display at least one searched telephone number. One number is selected by a user among the displayed telephone numbers and dialed automatically by a telephone plug-in to set up a communication channel through the telephone.

FIG. 1 (PRIOR ART)

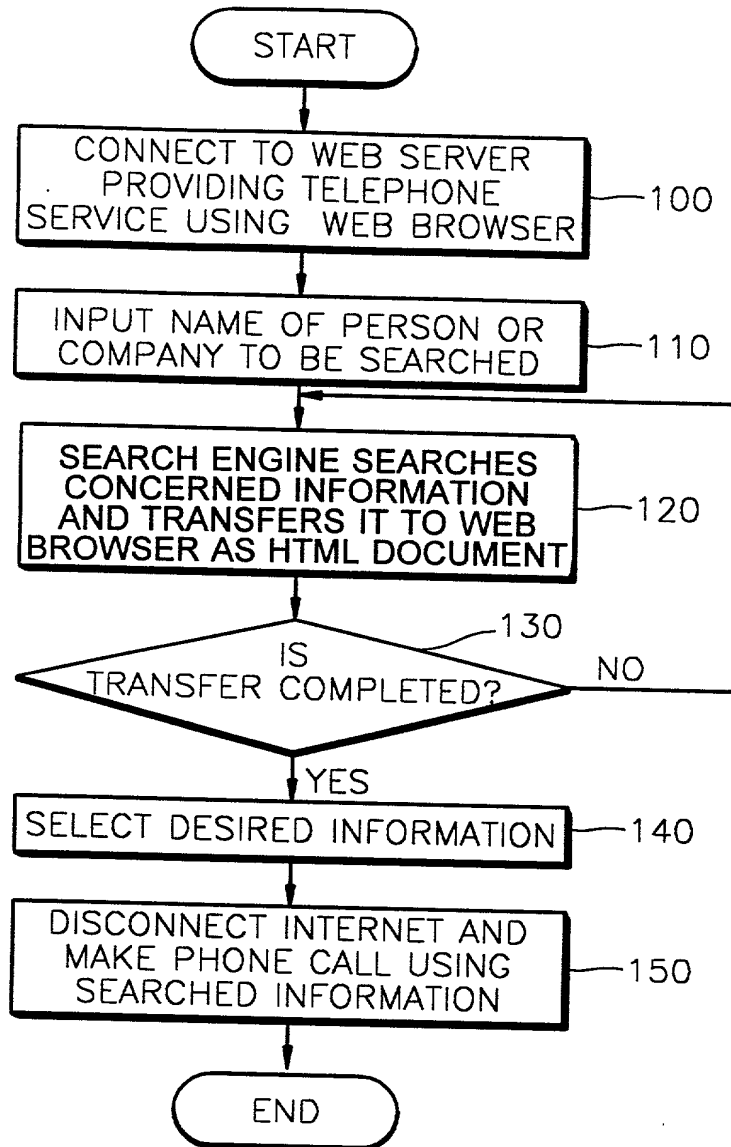


FIG. 2

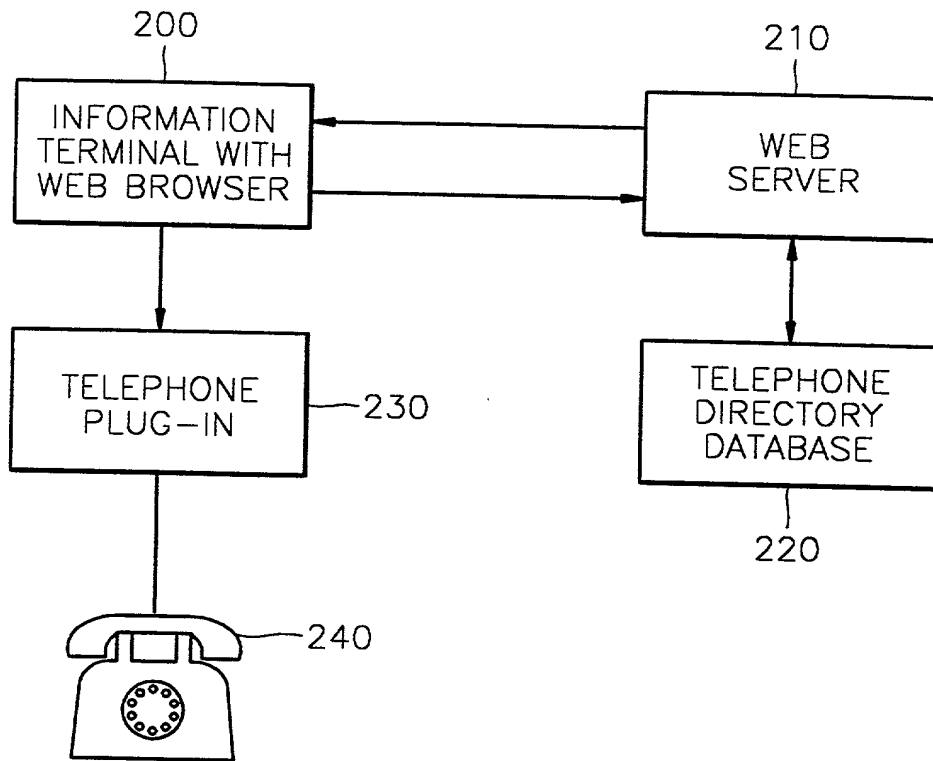


FIG. 3

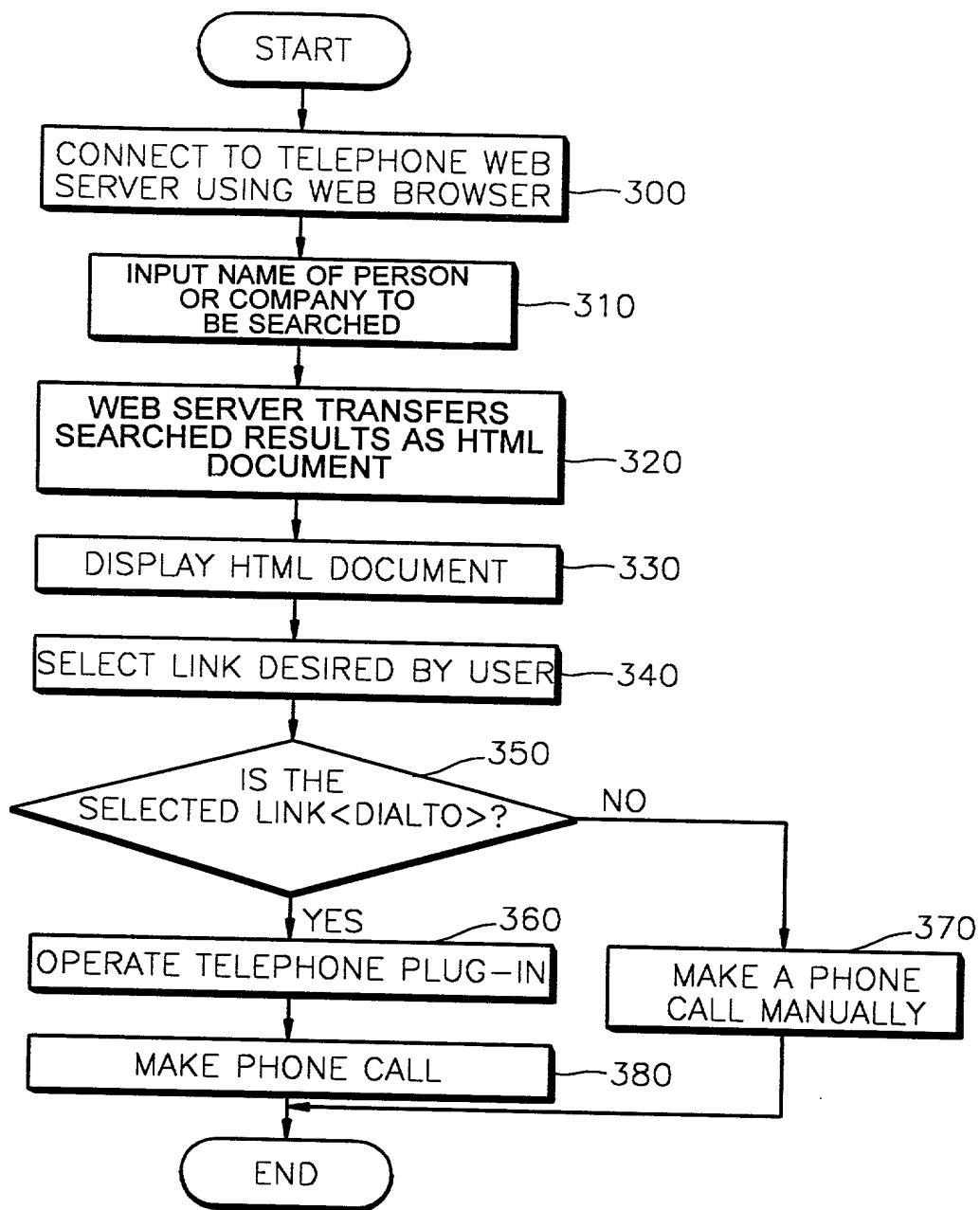


FIG. 4

NAME/COMPANY NAME:	<input type="text" value="JOHN DOE"/>
ADDRESS:	<input type="text" value="WASHINGTON DC"/>
KEY WORD:	<input type="text"/>
	<input type="button" value="SEARCH"/>

FIG. 5

JOHN DOE : 1615 NEW HAMPSHIRE AVE., NW WASHINGTON DC
TELEPHONE NUMBER<DIALTO>555-5151</DIALTO>
JOHN DOE : 1233 20TH ST., NW WASHINGTON DC
TELEPHONE NUMBER<DIALTO>555-5124</DIALTO>
JOHN DOE : 1616 P ST., NW WASHINGTON DC
TELEPHONE NUMBER<DIALTO>555-2471</DIALTO>

FIG. 6

JOHN DOE : 1615 NEW HAMPSHIRE AVE., NW WASHINGTON DC
TELEPHONE NUMBER 555-5151
JOHN DOE : 1233 20TH ST., NW WASHINGTON DC
TELEPHONE NUMBER 555-5124
JOHN DOE : 1616 P ST., NW WASHINGTON DC
TELEPHONE NUMBER 555-2471

S&H 6/96

UNITED STATES

Docket No.: 1293.1050

COMBINED DECLARATION/POWER OF ATTORNEY FOR UTILITY/DESIGN PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

TELEPHONE NUMBER SEARCHING SYSTEM SUPPORTING AUTOMATIC TELEPHONE CONNECTION AND METHOD

the specification of which (check one) ☒ is attached hereto ☐ was filed on _____ **THEREFOR**
as U.S. Application Serial No. _____ and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in §1.56. I hereby claim foreign priority benefit(s) under 35 U.S.C. §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

<u>97-55564</u>	<u>Rep. of Korea</u>	<u>28/October/1997</u>	<input checked="" type="checkbox"/> [X]	<input type="checkbox"/> []
(Number)	(Country)	Day/Month/Year Filed	Yes	No
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/> []	<input type="checkbox"/> []
(Number)	(Country)	Day/Month/Year Filed	Yes	No

I hereby claim the benefit under 35 U.S.C. §120 of any U.S. application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

<u> </u>	<u> </u>	<u> </u>
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
<u> </u>	<u> </u>	<u> </u>
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorneys and agent: James D. Halsey, Jr., 22,729; Harry John Staas, 22,010; David M. Pitcher, 25,908; John C. Garvey, 28,607; J. Randall Beckers, 30,358; James H. Marsh, Jr., 24,533; William F. Herbert, 31,024; Richard A. Gollhofer, 31,106; Mark J. Henry, 36,162; Paul F. Daebeler, 35,852; Gene M. Garner II, 34,172; Ilene D. Altman, 36,371; Michael D. Stein, 37,240; Paul I. Kravetz, 35,230; Gerald P. Joyce, III, 37,648; Todd E. Harlette, 35,269; Beverly A. Pawlikowski, 36,404; John P. Kong, 40,054; Harlan B. Williams, Jr., 34,756; Richard J. Stokely, 40,383 and William M. Schertler, 35,348 (agent); to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Send correspondence to: STAAS & HALSEY, 700 Eleventh Street, N.W., Suite 500, Washington, D.C., 20001, and direct telephone calls to: (202) 434-1500

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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(Supply similar information and signature lines for third and subsequent joint inventors.)

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UNITED STATES

Docket No.: 1293.1050

COMBINED DECLARATION/POWER OF ATTORNEY FOR UTILITY/DESIGN PATENT APPLICATION

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Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name of fifth joint inventor, if any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name sixth joint, inventor, if any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name of seventh joint inventor, if any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name eighth joint, inventor, if any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____